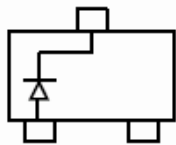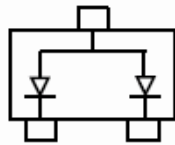## SWITCHING DIODE

BAS21/A/C/S

FEATURES

• Fast Switching Speed

• Surface Mount Package Ideally Suited for Automatic Insertion

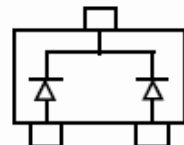• For General Purpose Switching Applications

• High Conductance

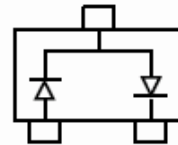SOT-23

MARKING

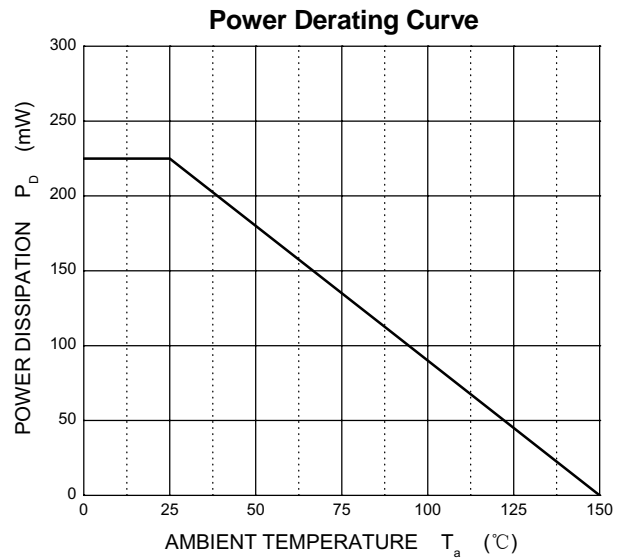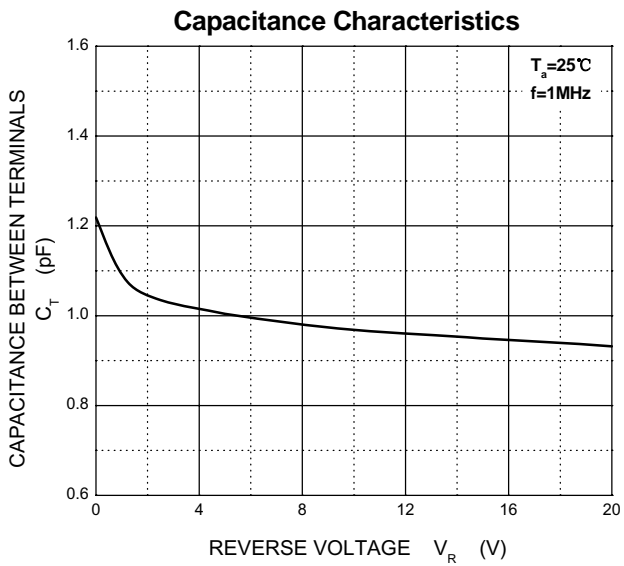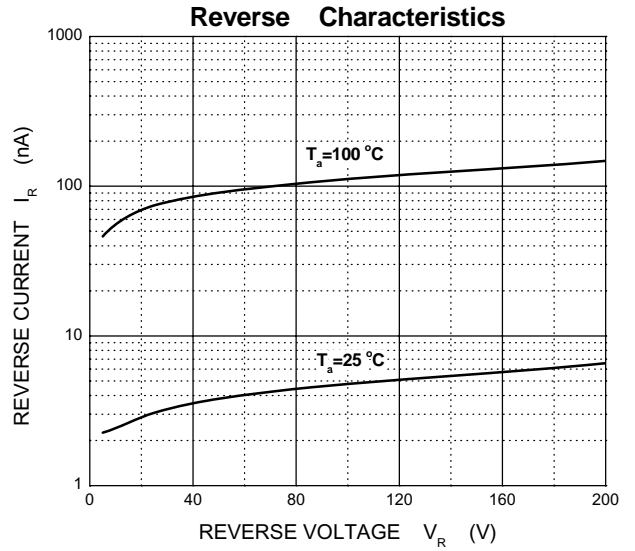BAS21: JS   BAS21A: JS2   BAS21C:JS3   BAS21S: JS4

MAXIMUM RATINGS (TA=25℃ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	250	V
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	400	mA
Average rectified output current	I_O	200	mA
Non-repetitive peak forward surge current @ t = 1.0μs	I_{FSM}	2.5	A
@ t = 1.0s		0.5	
Repetitive peak forward surge current	I_{FRM}	625	mA
Power dissipation	P_D	225	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	55	℃/W
Junction temperature	T_J	150	℃
Storage temperature range	T_{STG}	-55~+150	℃

Electrical Ratings @T_A=25℃

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 100μA	250		V
Reverse voltage leakage current	I_R	V_R=200V		0.1	μA
Forward voltage	V_F	I_F=100mA		1000	mV
		I_F=200mA		1250	
Diode capacitance	C_D	V_R=0V, f=1MHz		5	pF
Reveres recovery time	t_{rr}	I_F=I_R=30mA,I_{rr}=0.1×I_R,R_L=100Ω		50	ns

BAS21/A/C/S Typical Characteristics

Forward Characteristics

FORWARD CURRENT I_F (mA)

FORWARD VOLTAGE V_F (V)

$T_a=100\,°C$
$T_a=25\,°C$

Reverse Characteristics

REVERSE CURRENT I_R (nA)

REVERSE VOLTAGE V_R (V)

$T_a=100\,°C$
$T_a=25\,°C$

Capacitance Characteristics

CAPACITANCE BETWEEN TERMINALS C_T (pF)

REVERSE VOLTAGE V_R (V)

$T_a=25°C$
$f=1MHz$

Power Derating Curve

POWER DISSIPATION P_D (mW)

AMBIENT TEMPERATURE T_a (°C)
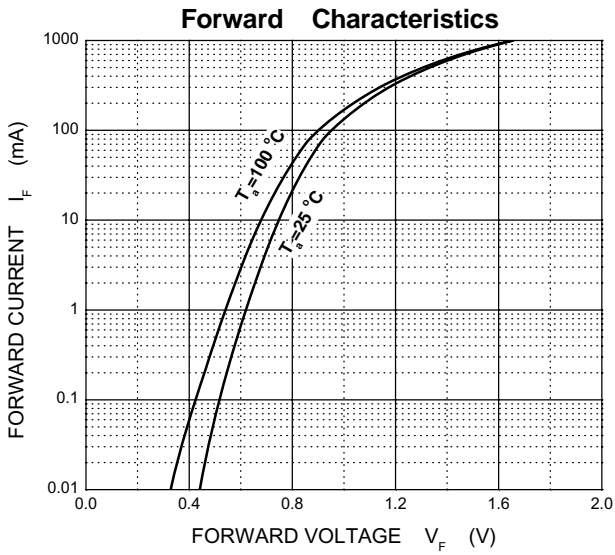
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